



CIVIL-TECH CONSULTANTS & ENGINEERS

Building & Highway Material Testing Laboratory
NABL - Accredited Laboratory as per ISO / IEC - 17025 : 2005

Job No: CTCE/BBMP/W.No.04/LR/CEMENT/2013-14

Date: 04/03/2014



TEST REPORT

CLIENT : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
AGENCY : Mr. Lokanatha Reddy, Contractor, Bangalore.
NAME OF THE WORK : Construction of Samudaya in Kanaka Nagar in Ward No.04, BBMP, Bangalore.
REFERENCE : BBMP/AEE/YNSD/ /2013-14 Dated: 10/03/2014
SAMPLE ID : Cement
SAMPLES SUPPLIED BY : AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	480 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.50 %	-

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M.R.
M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagar,
Basaveshwaranagar,
Bangalore-560079.



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Job No.: CTC/BBMP/W.No.04/LR/SAND/2013-14

: 04.03.2014

TEST REPORT ON FINE AGGREGATES (SAND) IS 383-1970 (RA- 2002)



Client : Asst. Executive Engineer, Yalahanka New Town Sub Division, BBMP, Bangalore.
Agency : Mr. Lokanatha Reddy, Contractor, Bangalore.
Name of Work : Construction of Samudaya in Kanaka Nagara in Ward No.04, BBMP, Bangalore.
Reference : BBMP/AEE/YNSD/ /2013-14 Dated: 10.03.2014
Date of Testing : 04.03.2014
Material : Sand Total Wt. of Aggregates in gms 2000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	89	4.45	4.45	95.6	90-100
2.36	201	10.05	14.50	85.5	75-100
1.18	502	25.10	39.60	60.4	55-90
600 Micron	436	21.80	61.40	38.6	35-59
300 Micron	509	25.45	86.85	13.2	8-30
150 Micron	192	9.60	96.45	3.6	0-10

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4th Block, Shakthiganapathinagar,
Basaveshwaranagar,
Bangalore-560079.



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Job No: CTCE/BBMP/W.No.04/LR/ AGG/2013-14



10.03.2014

TEST REPORT ON COARSE AGGREGATES IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency : Mr. Lokanatha Reddy, Contractor, Bangalore.
Name of Work : Construction of Samudaya in Kanaka Nagara in Ward No.04, BBMP, Bangalore.
Reference : BBMP/AEE/YNSD/ /2013-14 Dated: 10.03.2014
Date of Testing : 04.03.2014
Material : 40mm Aggregates

Total Wt. of Aggregates in gms 25200

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	895	3.55	3.55	96.45	95-100
20	15560	61.75	65.30	34.70	30-70
10	5940	23.57	88.87	11.13	10-35
4.75	2530	10.04	98.91	1.09	0-5

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4th Block, Shakthiganapathinagar,
Basaveshwaranagar,
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Ref: No. CTCE/BBMP/W.Ng/04/LR/AGG/2013-14

04.03.2014

TEST REPORT ON COARSE AGGREGATES

IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Agency : Mr. Lokanatha Reddy, Contractor, Bangalore.

Name of Work : Construction of Samudaya in Kanaka Nagara in Ward No.04, BBMP, Bangalore.

Reference : BBMP/AEE/YNSD/ /2013-14 Dated: 10.03.2014.

Date of Testing : 04.03.2014

Material : 20mm Aggregates



Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	185	3.7	3.7	96.3	95-100
10	3340	66.8	70.5	29.5	25-55
4.75	1395	27.9	98.4	1.6	0-10

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Basaveshwaranagar,
Bangalore-560079.



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Job No: CTEE/BBMP/W No.04/LR/STEEL/2013-14

04.03.2014

TEST REPORT ON REINFORCEMENT STEEL

Client : **Assr. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.**

Agency : **Mr. Lokanatha Reddy, Contractor, Bangalore.**

Name of the work : **Construction of Samudaya in Kanaka Nagara in Ward No.04, BBMP, Bangalore.**

Reference : **BBMP/AEE/YNSD/ /2013-14 Dated: 10/03/2014**

Date of Test : **04.03.2014**

Technical Reference : **IS: 1786-2008**



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	8	0.40	510	542	12.80	O.K.	O.K.

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A.E.
W.G.

M/s. **Civil-Tech Consultants & Engineers**
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.



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04.03.2014

Job No: CTCE/BBMP/W.No.04/LR/STEEL/2013-14

TEST REPORT ON REINFORCEMENT STEEL

Client: Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore

Agency: Mr. Lokanatha Reddy, Contractor, Bangalore

Name of the work: Construction of Samudaya in Kanaka Nagar in Ward No.04, BBMP, Bangalore.

Reference: BBMP/AEE/YNSD/ /2013-14 Dated: 10.03.2014

Date of Test: 04.03.2014

Technical Reference: IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	10	0.62	513	546	13.10	O.K	O.K

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4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.



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04.03.2014

Job No: CTCE/BBMP/W.No.04/LR/STEEL/2013-14

TEST REPORT ON REINFORCEMENT STEEL

Client: Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore

Agency: Mr. Lokanatha Reddy, Contractor, Bangalore

Name of the work: Construction of Samudaya in Kanaka Nagara, in Ward No.04, BBMP, Bangalore.

Reference: BBMP/AEE/YNSD/ /2013-14 Dated: 10.03.2014

Date of Test: 04.03.2014

Technical Reference: IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	12	0.89	515	550	13.45	O.K	O.K

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4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.



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Job No: CTE/BBMP/W.No.04/IR/CUBE/2013-14



09.04.2014

TEST REPORT ON CONCRETE CUBES

Client : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Agency : Mr. Lokanatha Reddy, Contractor, Bangalore.

Name of the work : Construction of Samudaya in Kanaka Nagara in Ward No.04, BBMP, Bangalore.

Reference : BBMP/AEE/YNSD/ /2013-14 Dated: 10.03.2014

Sample ID : RCC Plinth Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sl No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	12.03.2014	09.04.2014	8.250	493.7	21.94
2	12.03.2014	09.04.2014	8.386	515.2	22.90
3	12.03.2014	09.04.2014	8.142	487.3	21.66

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M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathinagar, Basaveshwaranagar, Bangalore - 560 079.
E-mail : vishwanath.ia@civilttechconsultants.com / info@civilttechconsultants.com
Tele Fax : 23223227, Website : www.civilttechconsultants.com



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Job No: CTCV/BBMP/W.No.04/LR/CUBE/2013-14



14.03.2014

TEST REPORT ON CONCRETE CUBES

Client : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Agency : Mr. Lokanatha Reddy, Contractor, Bangalore.

Name of the work : Construction of Samudaya in Kanaka Nagara in Ward No.04, BBMP, Bangalore.

Reference : BBMP/AEE/YNSD/ /2013-14 Dated: 10.03.2014

Sample ID : RCC Lintel Concrete

Size of cubes : 150mmx150mmx150mm

Gross Sectional Area : 22500 mm²

Technical Reference : IS- 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₅

Compressive Strength as on : 28th day

Sl.No:	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	17.03.2014	14.03.2014	8.145	482.5	21.44
2	17.03.2014	14.03.2014	8.265	497.6	22.12
3	17.03.2014	14.03.2014	8.384	500.5	22.24

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23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathinagar, Basaveshwaranagar, Bangalore - 560 079.

E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

Tele Fax : 23223227, Website : www.civiltechconsultants.com



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22.03.2014



TEST REPORT ON CONCRETE CUBES

Client : Asst. Executive Engineer, Yalahanka New Town Sub Division, BBMP, Bangalore.

Agency : Mr. Lokanatha Reddy, Contractor, Bangalore.

Name of the work : Construction of Samudaya in Kanaka Nagara in Ward No.04, BBMP, Bangalore.

Reference : BBMP/AEE/YNSD/ /2013-14 Dated: 10.03.2014

Sample ID : RCC Slab Concrete

Size of cubes : 150mmx150mmx150mm

Gross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₅

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	25.03.2014	22.03.2014	8.385	511.3	22.72
2	25.03.2014	22.03.2014	8.269	494.5	21.98
3	25.03.2014	22.03.2014	8.145	483.5	21.49

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Basaveshwaranagar,
Bangalore-560079.

23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathinagar, Basaveshwaranagar, Bangalore - 560 079.

E-mail : vishwanath.ia@civilttechconsultants.com / info@civilttechconsultants.com

Tele Fax : 23223227, Website : www.civilttechconsultants.com